



Parts Manual

Mfg. No: 620301x85NB
Single Stage Snow Thrower (2003)

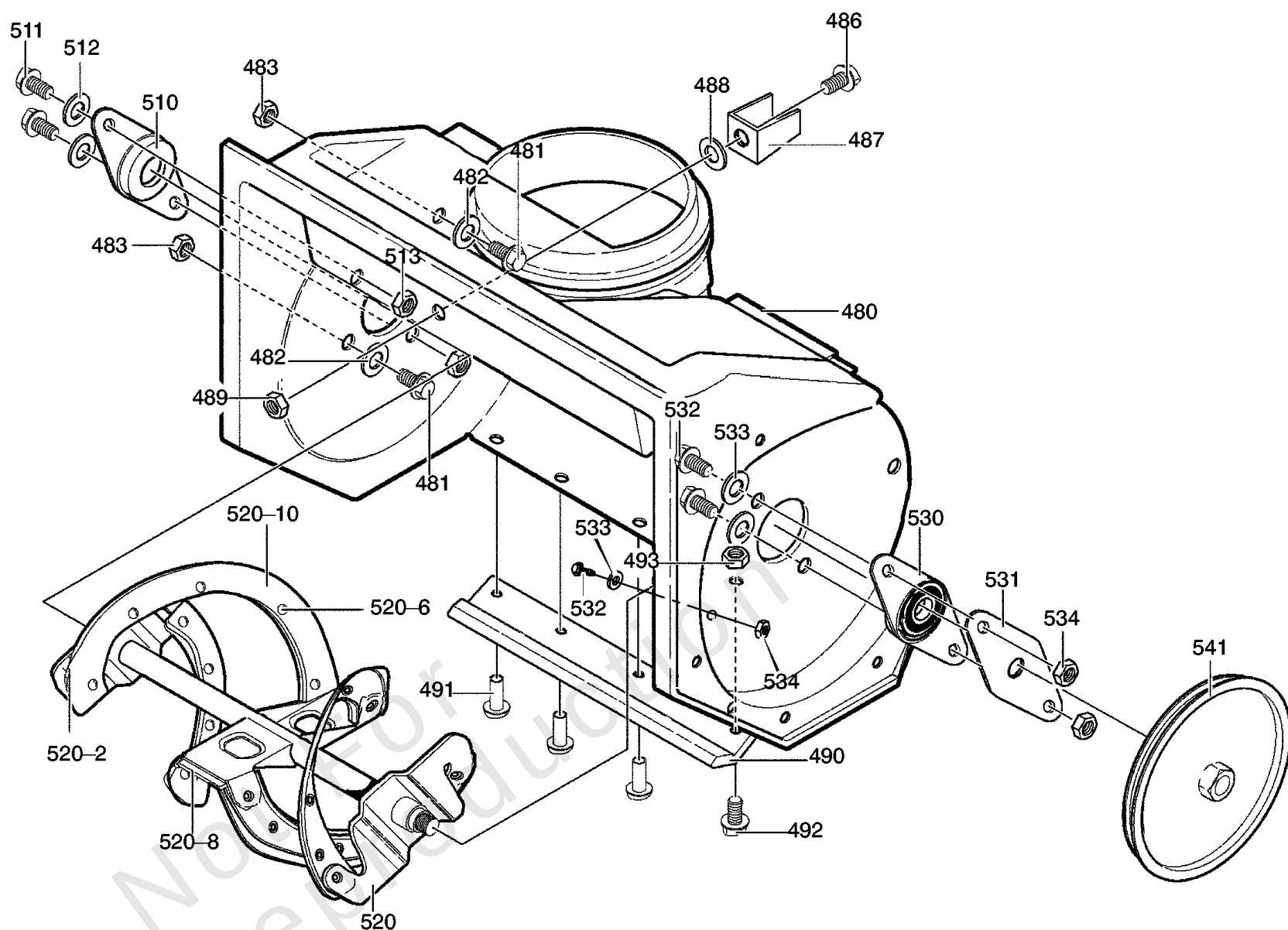
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Auger Housing

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 620301x85NB



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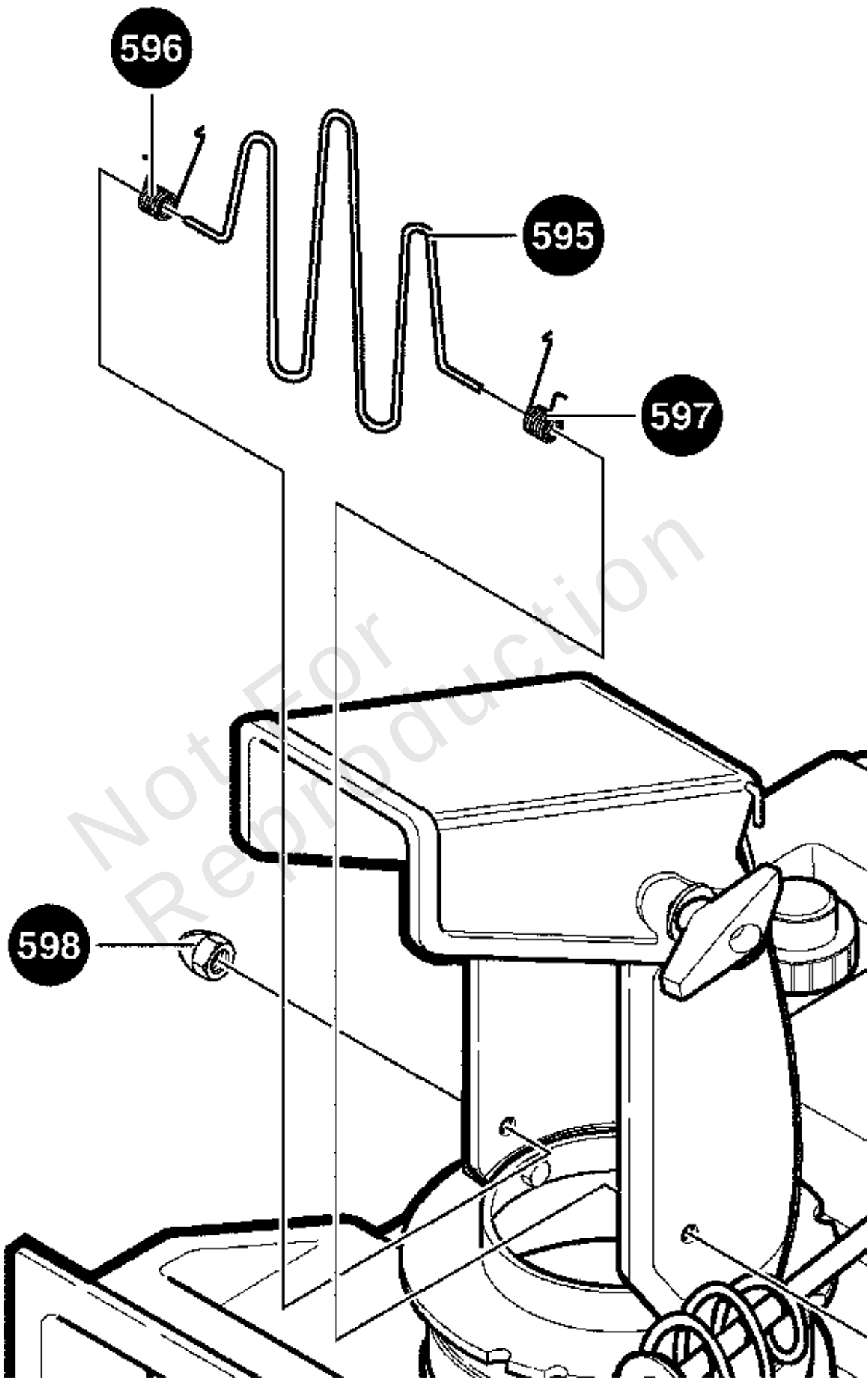
Auger Housing

REF NO	PART NO	QTY	DESCRIPTION
480	330312MA		HOUSING, ASSY
481	302628MA		SCREW, 1/4-20X .75 HH
482	71067		WASHER, FLAT .281X.63X.065
483	782585		NUT, HEX 1/4-20 YZ
486	579052		SCREW, 1/4-20X.63
487	331126MA		BRACKET, STOP
488	331211MA		WASHER, FLAT .333X.87X.119
489	780029		NUT, 1/4-20 HEX NYLOCK
490	334031MA		BLADE, SCRAPER
491	577707		RIVET, OVSET
492	302628MA		SCREW, 1/4-20X .75 HH
493	782585		NUT, 1/4-20 YZ
510	577023MA		BRNG, FLNG
511	710263		SCREW, 1/4-20X1.00
512	71067		WASHER, FLAT .281X.63X.065
513	302635		NUT, 1/4-20
520	302783MA		AUGER,20 2CY BLACK
520-2	302565MA		BLADE, AUGER
520-6	49838		RIVET
520-8	335992MA		BLADE,CENTER <57121
520-10	302552E701		AUGER & BLADE SUPPORT
530	583459MA		PLATE&BEARING ASY
531	334287MA		PLATE, RETAINER
532	579052		SCREW, 1/4-20X.63
533	71067		WASHER, FLAT .281X.63X.065
534	73826		NUT, 1/4-20
541	338965MA		PULLEY

Chute Guard

Note: Unless noted otherwise, use the standard torque specifications

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Chute Guard

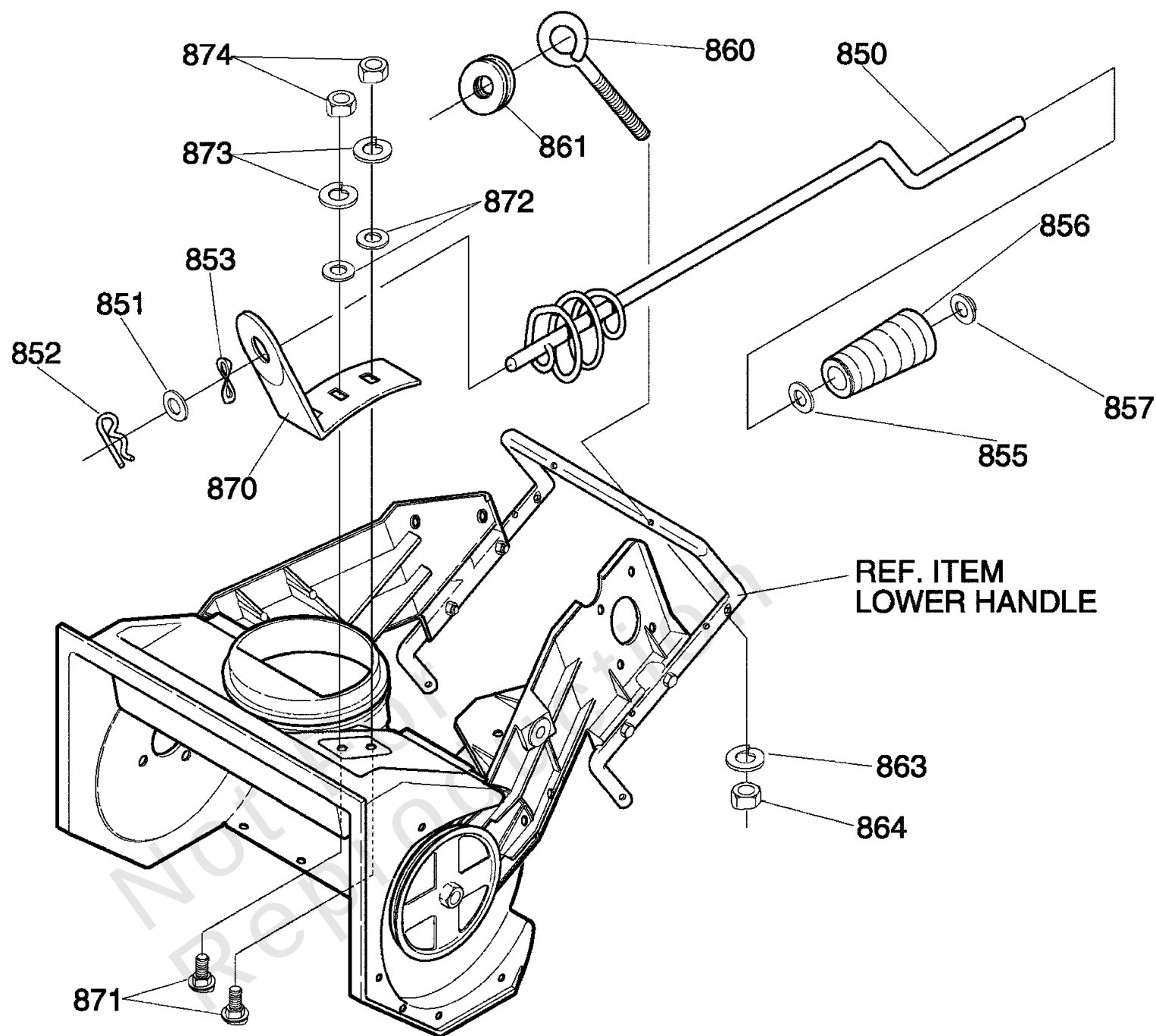
REF NO	PART NO	QTY	DESCRIPTION
595	311206		GUARD, WIRE CHUTE
596	51776MA		SPRING, TORSION
597	51777		SPRING, TORSION
598	49106		NUT, ACORN

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Chute Rod Assembly

Note: Unless noted otherwise, use the standard torque specifications

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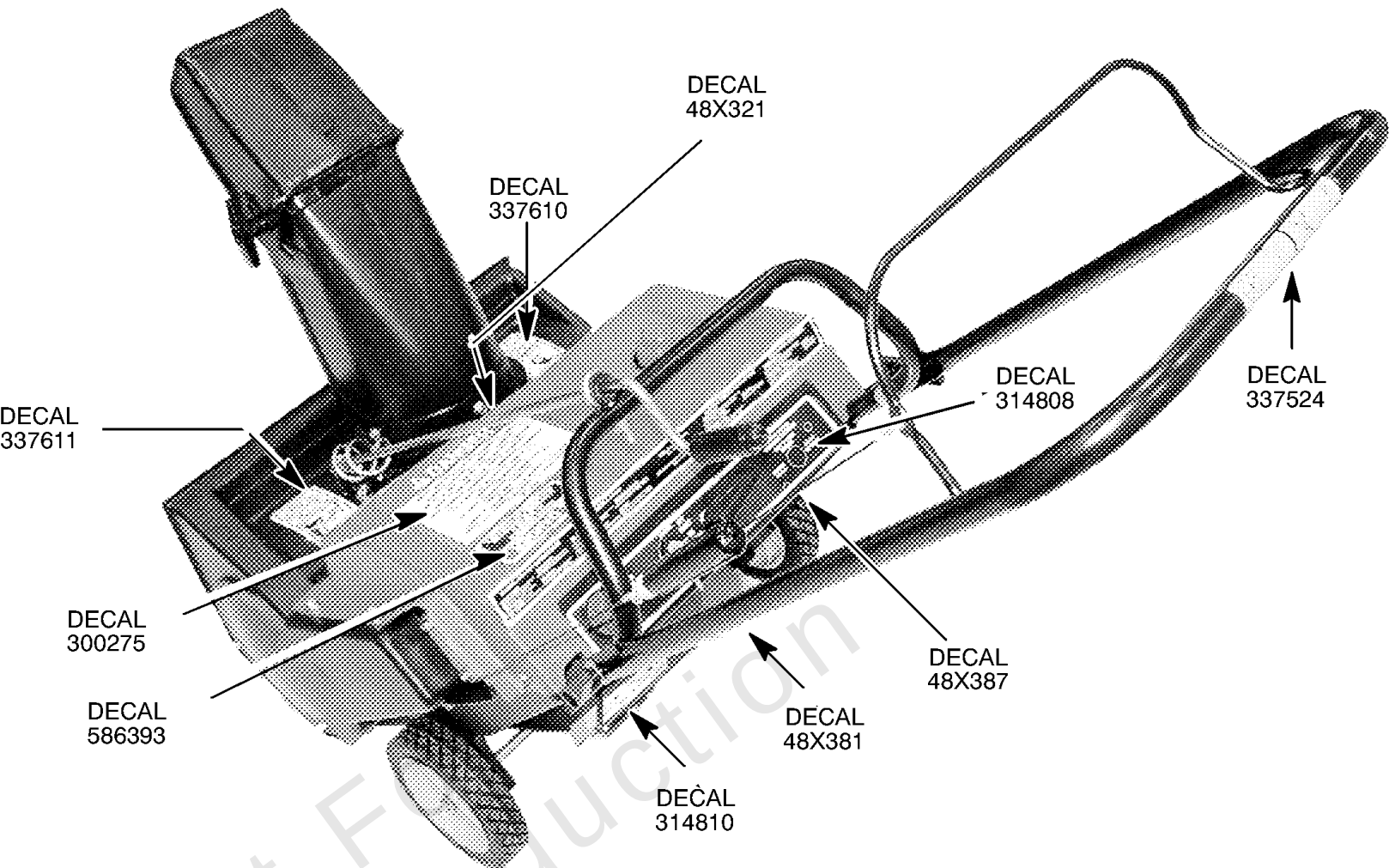
Chute Rod Assembly

REF NO	PART NO	QTY	DESCRIPTION
850	314996		ROD, ASSY UPPER CHUTE CONTROL
851	71072		WASHER, FLAT .406X.81X.066
852	71082		PIN, COTTER
853	313431MA		WASHER, CURVED SPRING
855	71072		WASHER, FLAT .406X.81X.066
856	57082MA		KNOB, SLEEVE
857	331532MA		NUT, PUSH, FITS 3/8 D
860	313712		EYE BOLT, 3/8-16X2.00
861	148MA		GROMMET, Eyelet
863	71062		WASHER
864	71045		NUT, HEX JAM 3/8-16
870	333946E701MA		BRACKET, CHUTE ROTATE
871	340720MA		BOLT, CARRIAGE 5/16-18X.75
872	71071		WASHER, FLAT .349X.69X.066
873	71060		WASHER .328X.60X.09
874	71037		NUT, HEX 5/16-18

Decals

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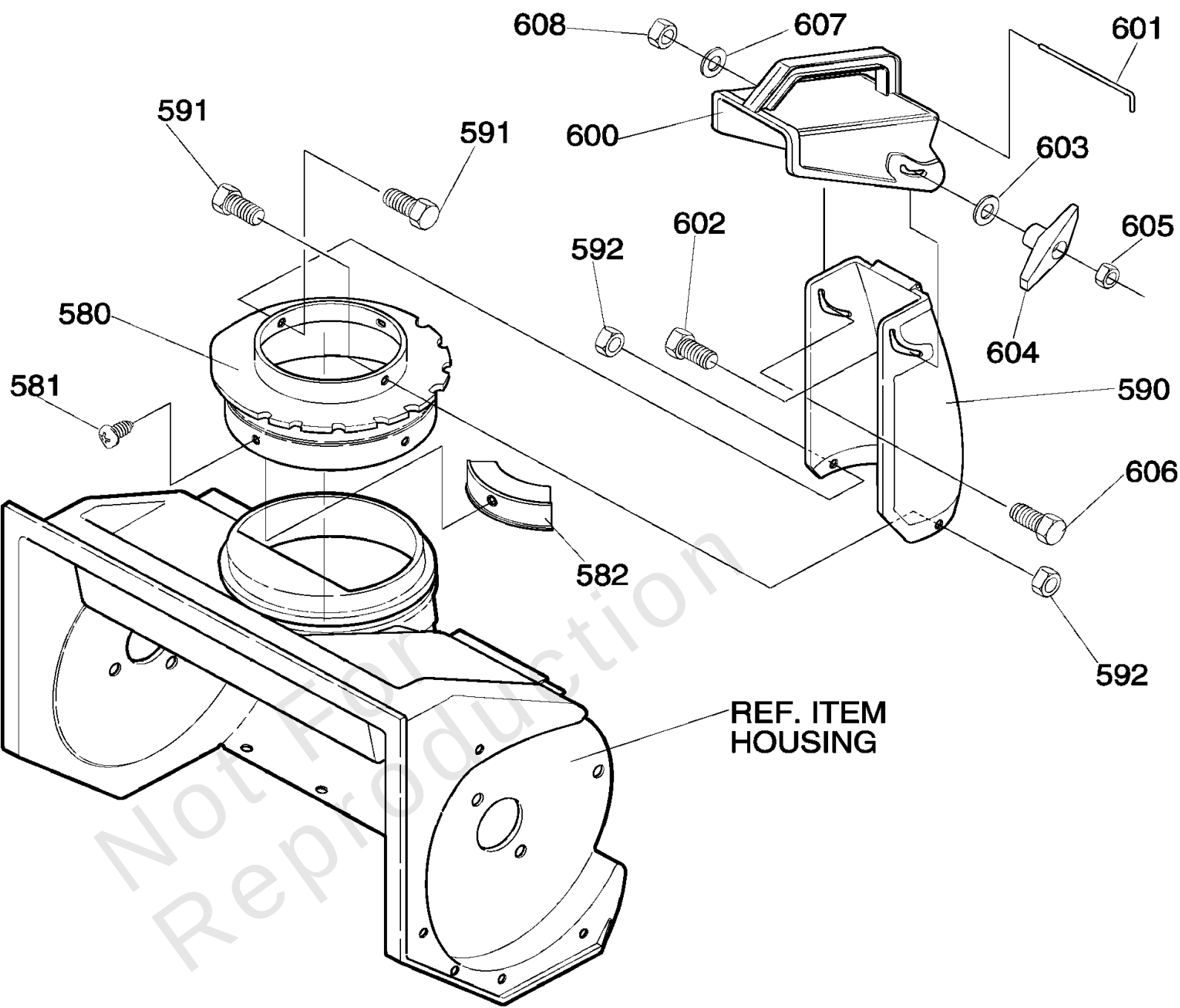
Decals

REF NO	PART NO	QTY	DESCRIPTION
314810	314810		DECAL, OFF-CHOKE-ON
314808	314808		DECAL, CONTROL PANEL
337524	337524MA		DECAL, AUGER CONTROL
48X321	48X321		DECAL, SNOWSTAR - STIGA
300275	300275MA		DECAL, DANGER -READ
586393	586393		DECAL, MUFFLER HOT
48X381	48X381		DECAL, EPA 3HP, MASS
337610	337610MA		DECAL, DANGER CHUTE -HAND
337611	337611MA		DECAL, DANGER AUGER -FOOT
48X387	48X387		DECAL

Discharge Chute

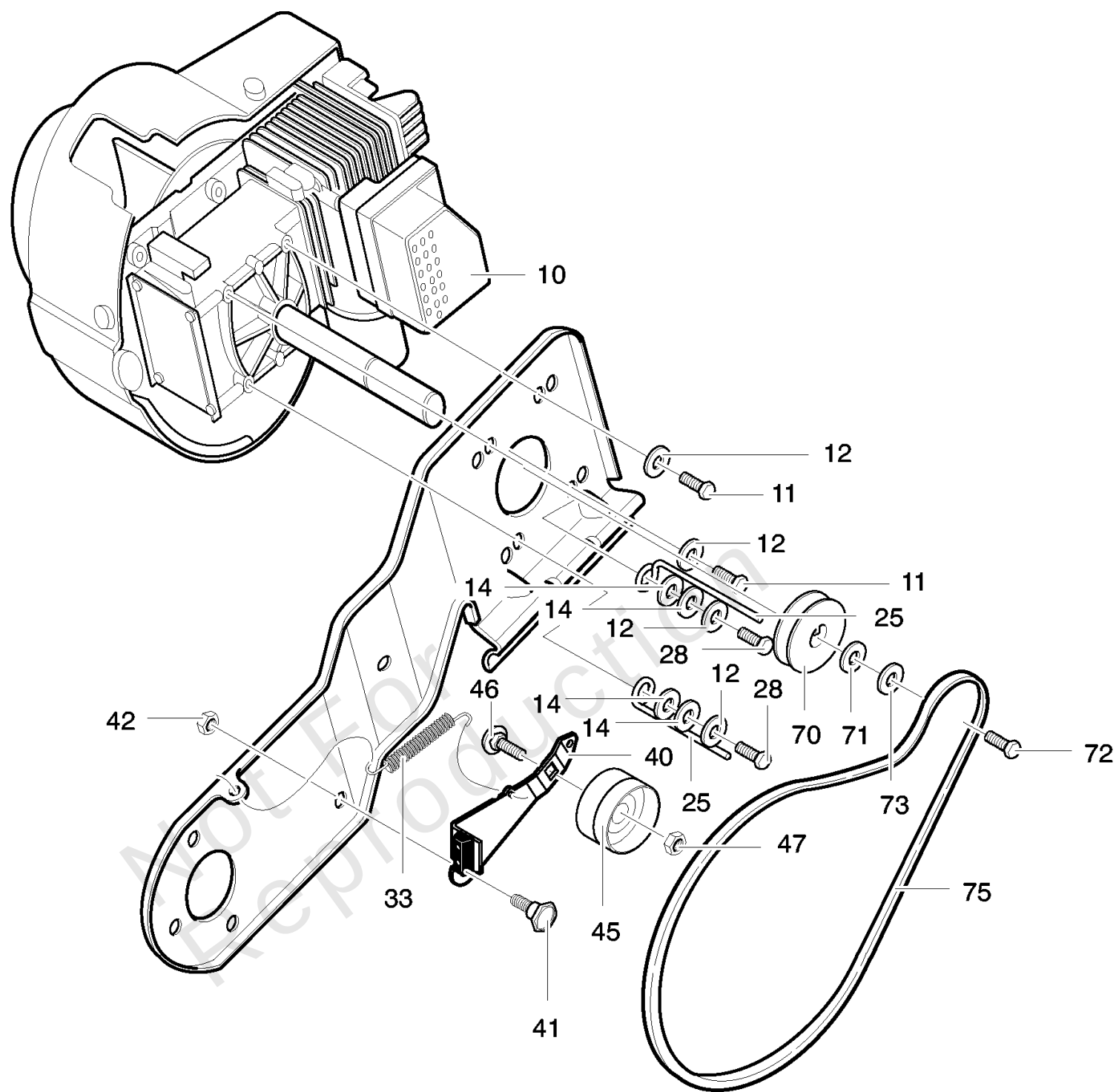
Note: Unless noted otherwise, use the standard torque specifications

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Discharge Chute

REF NO	PART NO	QTY	DESCRIPTION
580	314239MA		RING, CHUTE
581	711752MA		SCREW, 1/4-20 x .50
582	577021MA		GUIDE, CHUTE
590	305862MA		CHUTE,LWR 21 653BLK
591	313686MA		SCREW, 1/4-20X .50 HH
592	782585		NUT, 1/4-20
600	305861MA		UPPER CHUTE W/HANDLE
601	310562MA		WIRE HINGE
602	302843MA		BOLT, 5/16-18X1.25 CA
603	71071		FLATWASHER
604	57171		T KNOB
605	71037		NUT, 5/16-18
606	578088MA		SCREW, 5/16-18X .75SL
607	71071		FLATWASHER
608	71391		NUT, 5/16-18



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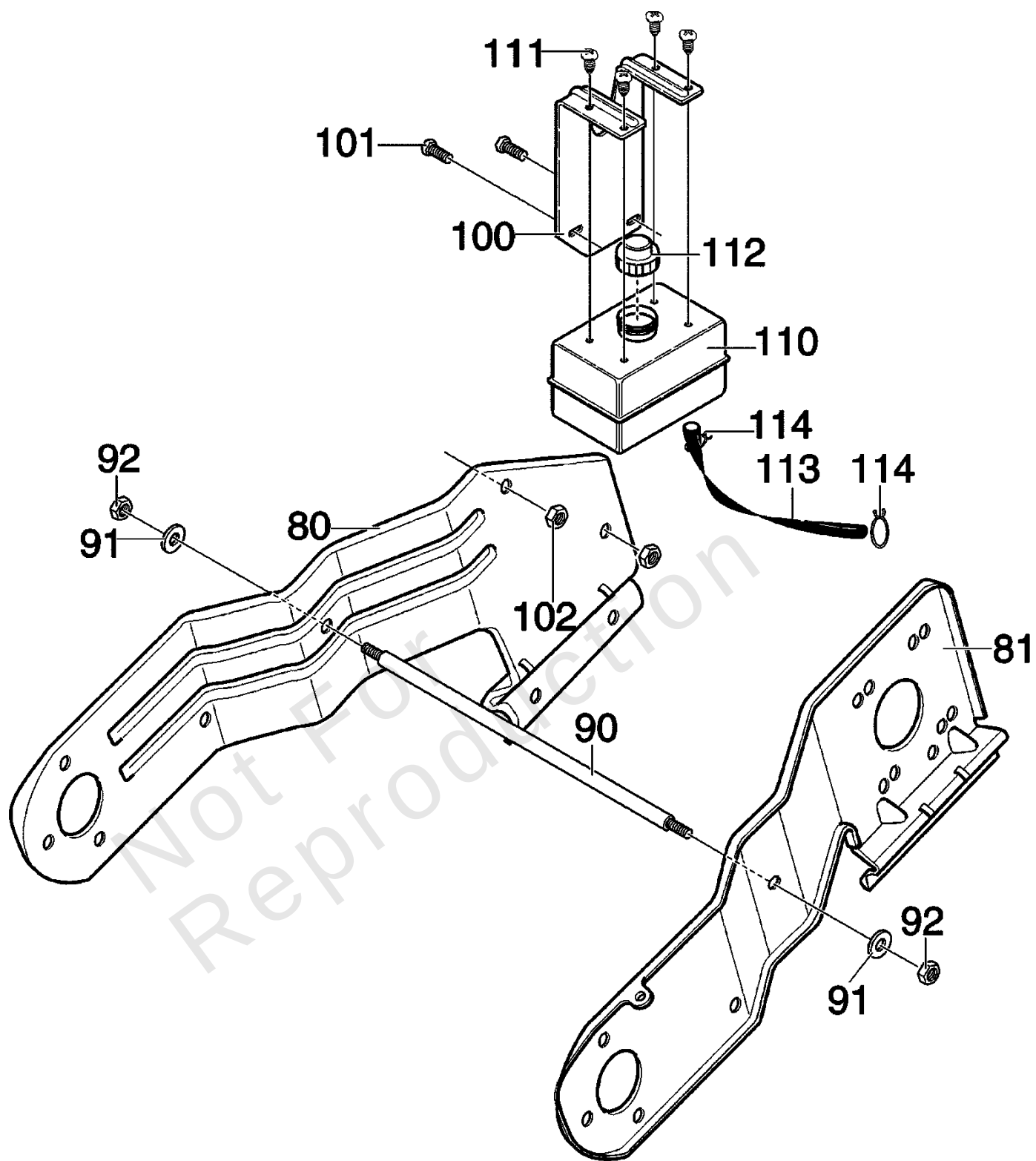
Engine Assembly

REF NO	PART NO	QTY	DESCRIPTION
10	-----		ENGINE
11	180077MA		SCREW, 5/16-18 x 0.75
12	018X16MA		WASHER, SPLTLK
14	71071		WASHER, FLAT
25	313440MA		GUIDE, BELT
28	710312		SCREW
33	339017MA		SPRING, IDLER BRAKE
40	1501013MA		ASSY, IDLER BRAKE ARM
41	333594MA		BOLT-SHD.500X.177 .31
42	71391		NUT, 5/16-18
45	48924MA		PULLEY, IDLER
46	45892MA		BOLT, CARRIAGE
47	590		NUT
70	338849MA		PULLEY, ENGINE
71	25840		WASHER, BELLEVEILLE
72	181595		SCREW, 5/16-24 x .75
73	018X16MA		WASHER, SPLTLK
75	760928MA		BELT, V 3L 34.8"
--	F-031048C		INSTRUCTION MONUAL
--	F-031077C		PARTS MANUAL

Frame Components Assembly

Note: Unless noted otherwise, use the standard torque specifications

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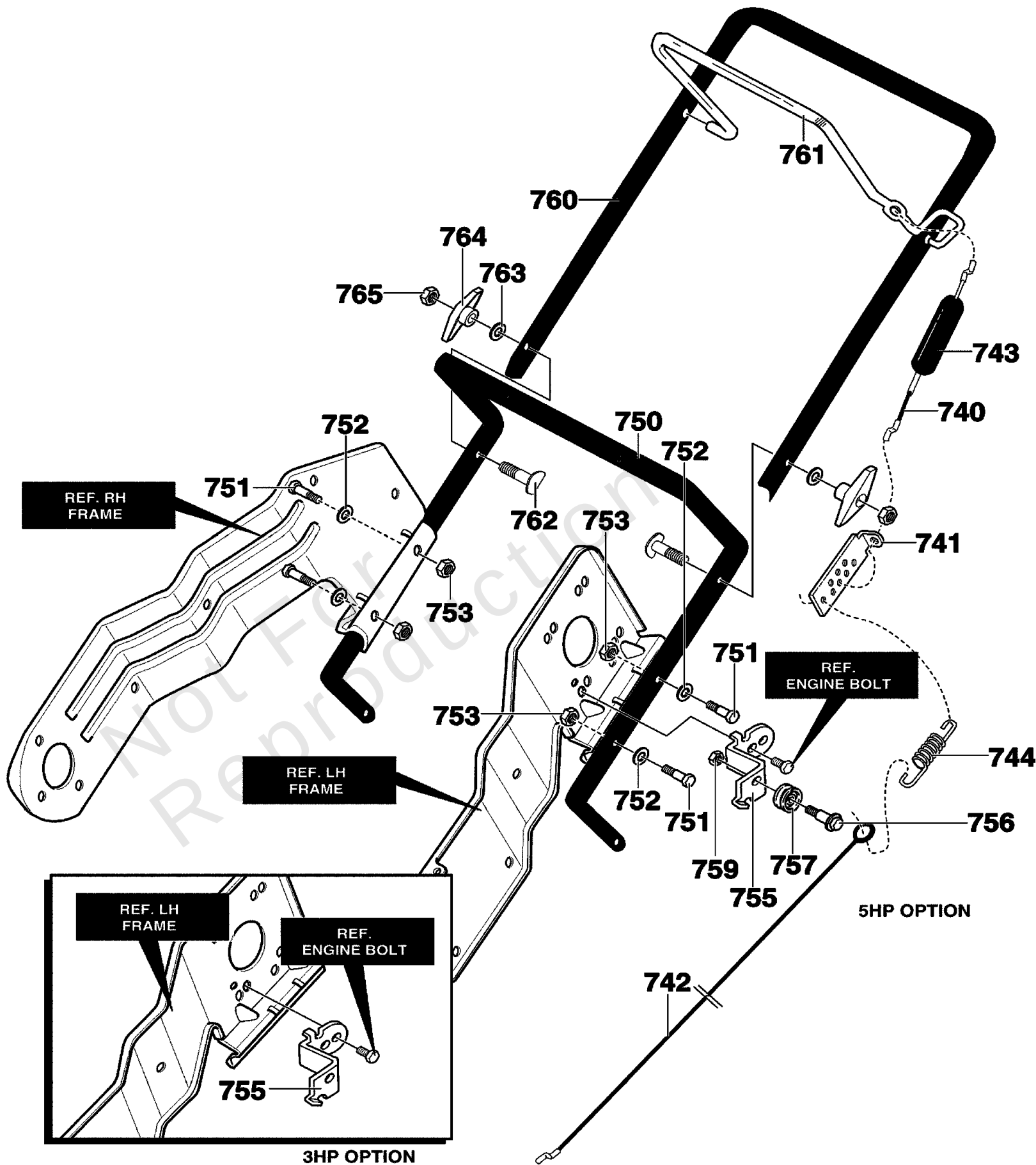
Frame Components Assembly

REF NO	PART NO	QTY	DESCRIPTION
80	760272E701		FRAME SIDE SUPPORT RH
81	760271E701MA		FRAME SIDE SUPPORT LH
90	760169		ROD, SUPPORT
91	71063		WASHER, HVSPTLK
92	71044		NUT, 3/8-16 REGHEX
100	578093E701		BRACKET, GAS TANK
101	302628MA		SCREW, 1/4-20X .75 HH
102	782585		NUT, 1/4-20 REGHEXCTRLK YZ
110	55381		TANK, FUEL
111	313681		SCREW, 1/4-14X.88 WAHHTAP
112	315433MA		CAP, GAS-BLACK
113	327290		TUBING 11.50 IN.
114	48672		CLAMP, FUEL LINE

Handle Assembly

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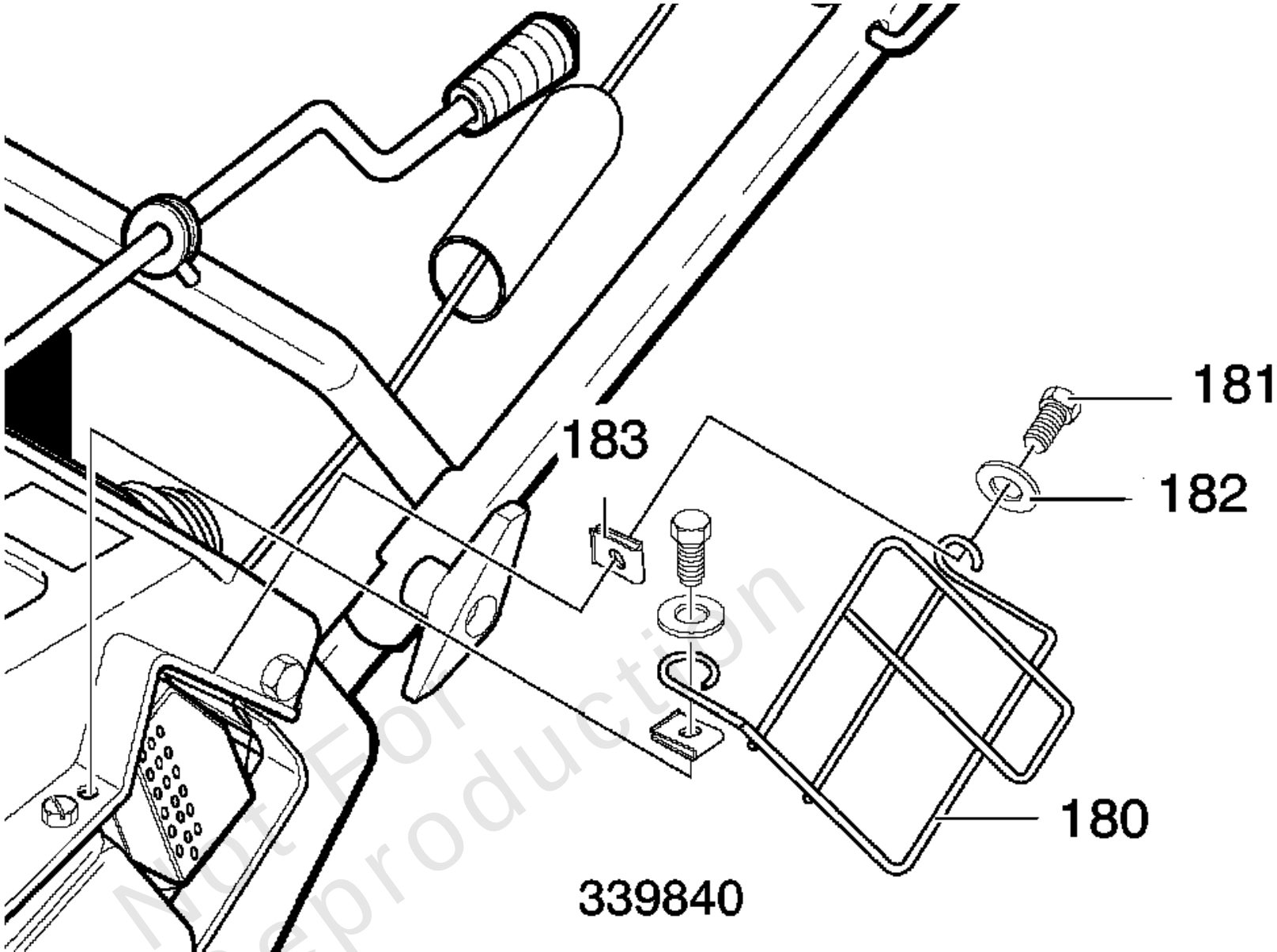
Handle Assembly

REF NO	PART NO	QTY	DESCRIPTION
740	760774MA		CABLE, UPPER
741	313441MA		BRACKET, CABLE ADJ BL
742	760773MA		CABLE, LOWER CONTROL
743	308146MA		BOOT, CLUTCH SPRING
744	313471MA		SPRING,EXT.75 OD X.06
750	313487E701		HANDLE, LOWER
751	313674MA		SCREW, 1/4-20X1.25
752	71067		WASHER, FLAT
753	73826		NUT, 1/4-20
755	761486E701		BRACKET, CABLE
756	712234MA		BOLT
757	39298		PULLEY
759	782585		NUT, 1/4-20 YZ
760	313489E701MA		UPPER HANDLE
761	313308E701MA		BAIL, CONTROL
762	337584MA		BOLT, 5/16-18X2.00 CU
763	311936MA		WASHER, FORM .344 ID
764	57171		KNOB, T 3.00 WD
765	71037		NUT, 5/16-18

Muffler Guard

Note: Unless noted otherwise, use the standard torque specifications

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Muffler Guard

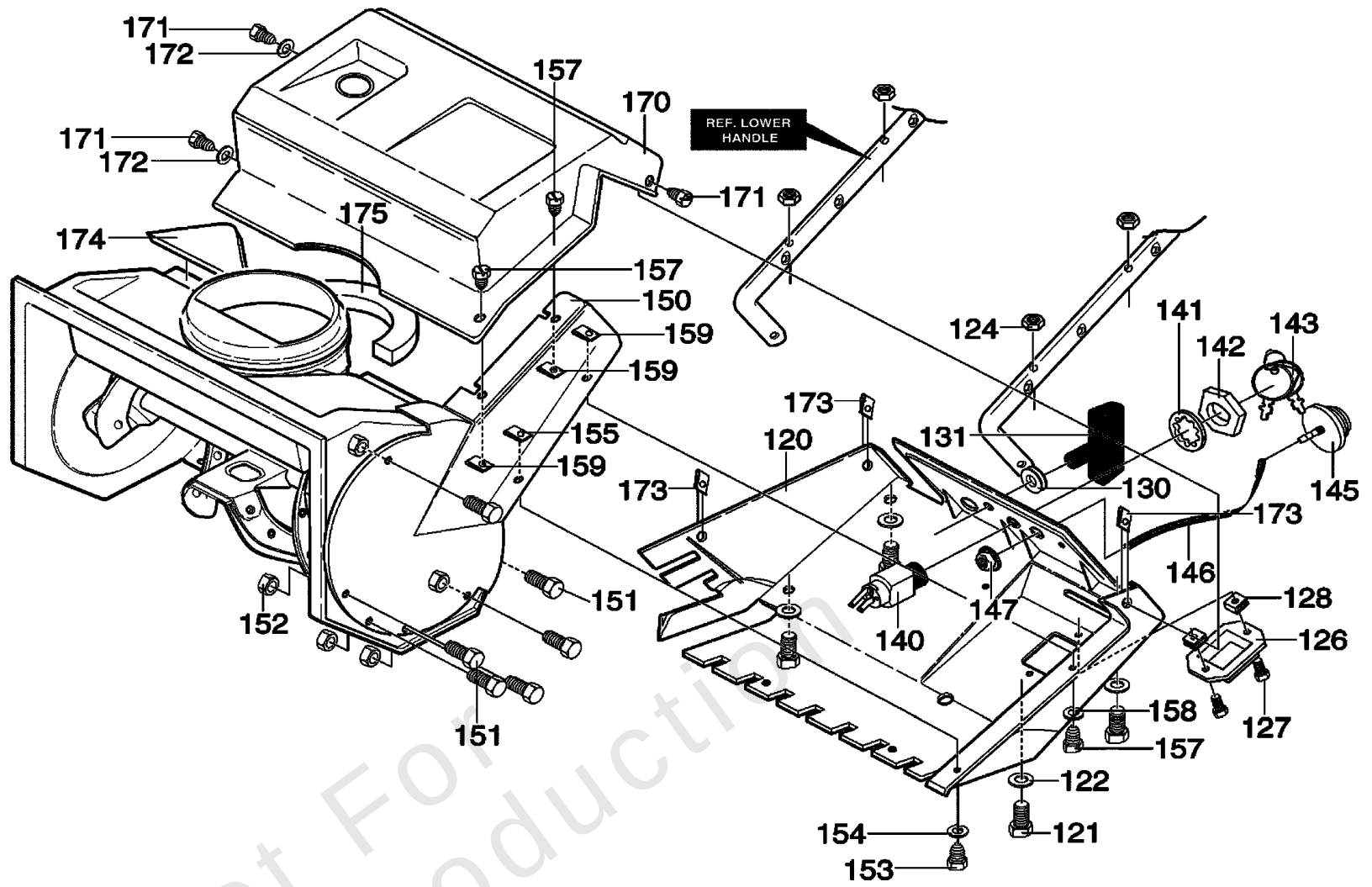
REF NO	PART NO	QTY	DESCRIPTION
180	57139		GUARD, MUFFLER -EXPT
181	579052		SCREW
182	71067		WASHER, FLAT
183	578107		NUT, 1/4-20 TINN

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Top Cover Assembly

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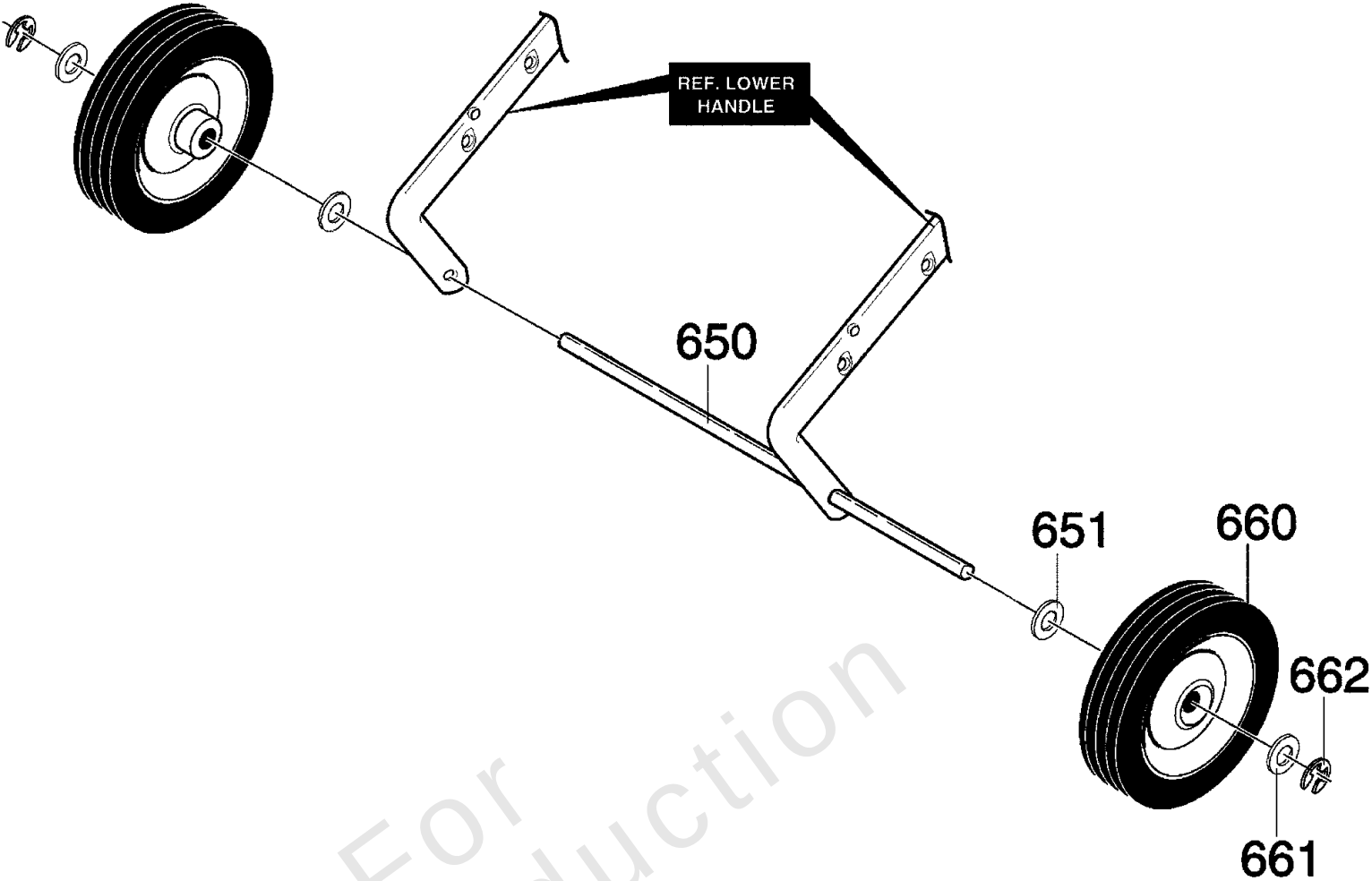
Top Cover Assembly

REF NO	PART NO	QTY	DESCRIPTION
120	302265MA		COVER, BOTTOM
121	313674MA		SCREW, 1/4-20X1.25
122	71067		WASHER, FLAT .281X.63X.065
124	782585		NUT, 1/4-20 YZ
126	326212		COVER, CARB
127	313685MA		SCREW, 1/4-14X .75 SL
128	578109MA		NUT, 1/4-10 SPEED J TYPE
130	57587		GROMMET & WASHER, ROPE GUIDE
131	333643		KNOB, STAND TEE
140	56992MA		SWITCH, IGNITION
141	313683		WASHER
142	300193MA		NUT, 5/8-32 ACC
143	49643		2 KEYS & RING
145	54601MA		PRIMER, ENGINE
146	1259MA		HOSE, PRIMER
147	271172		KEPS NUT, 1/4-20
150	57036MA		COVER,BELT,20 2CY 653
151	12342MA		SCREW, 10-24X.50
152	312300MA		NUT, #10-24
153	313686MA		SCREW, 1/4-20X .50 HH
154	71067		WASHER, FLAT .281X.63X.065
155	578107		NUT, 1/4-20 TINN
157	313685MA		SCREW, 1/4-14X .75 SL
158	71067		WASHER, FLAT .281X.63X.065
159	578109MA		NUT, 1/4-20 SPEED J TYPE
170	337099MA		COVER, TOP
171	313685MA		SCREW, 1/4-14X .75 SL
172	71067		WASHER, FLAT .281X.63X.065
173	578109MA		NUT, 1/4-10 SPEED J TYPE
174	55379MA		SEAL, FOAM
175	55380		SEAL, STRIP CHUTE & GAS SEAL

Wheels

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Wheels

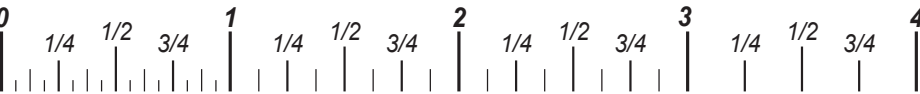
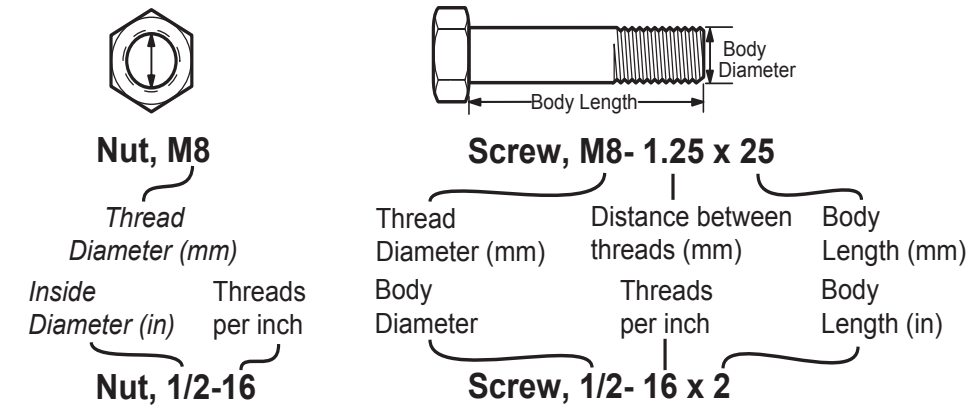
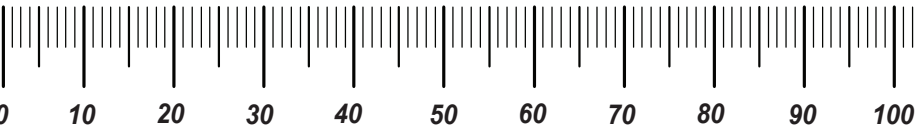
REF NO	PART NO	QTY	DESCRIPTION
650	313678MA		AXLE SHAFT
651	583409MA		WASHER, FLAT .391X1.00X1.25
660	760713MA		TIRE & RIM
661	583409MA		WASHER, FLAT .391X1.00X.125
662	577598MA		RING, RET E .30X.04TR

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Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

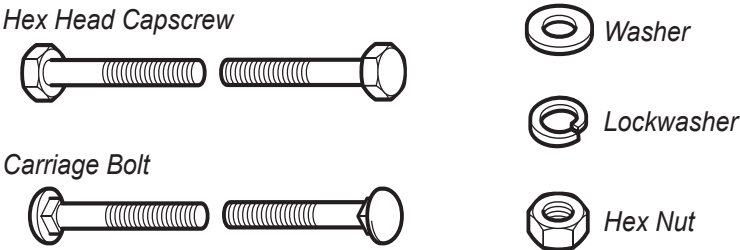
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

STIGA